



# STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

*Jim Gibbons, Governor*

*Allen Biaggi, Director*

*Leo M. Drozdoff, P.E., Administrator*

Mr. Mark Friedman  
General Counsel  
American Golf Corporation  
2951 28<sup>th</sup> Street  
Santa Monica, California 90405

February 2, 2007

Dear Mr. Friedman,

A recent file review located your May 12, 2004 letter discussing analytical data for groundwater samples collected from the Las Vegas National Golf Course. Unfortunately, your letter had accidentally been placed in a file for a different Las Vegas golf course, and it reached me quite belatedly.

Your letter documented the presence of tetrachloroethylene (PCE) in samples of groundwater collected from irrigation well PW-1 at the Las Vegas National Golf Course, 1911 E. Desert Inn Road, and requested that you be kept informed of environmental investigations by the Nevada Division of Environmental Protection (NDEP). I called your office during the week of January 15 to provide you with an update on our ongoing investigations at the two sites you mentioned in your letter. This letter provides a more detailed response to your request.

In our case files, there are two dry cleaner sites upgradient of the golf course that are undergoing remediation. One site, Dr. Clean (1195 E. Desert Inn Road), has a relatively small plume of PCE in shallow groundwater and will be undergoing remediation through vacuum extraction. The highest concentration in onsite groundwater was approximately 1,000 micrograms per liter ( $\mu\text{g/L}$ ); the highest concentration in offsite groundwater was about 300  $\mu\text{g/L}$ . The plume appears quite limited in its lateral extent, affecting only one adjacent property. It is unlikely that this facility is the source of PCE contamination in the golf course irrigation well at the Las Vegas National Golf Course.

The second site, Al Phillips the Cleaners (APTC), located at 3661 South Maryland Parkway in the former Maryland Square Shopping Center, is also currently scheduled for onsite remediation. The PCE plume apparently emanating from this facility is approximately 4,000 feet long and 400 feet wide. Twenty-seven monitoring wells have been installed to delineate this plume. The projected path of this plume intersects the golf course and a golf-course irrigation well just east of Ottawa Circle. I am not sure if this irrigation well (listed in our files as DWR-5675) is the same well that you refer to as PW-1. If you could send a map and borelog from your consultant's report, I could verify whether or not this is the same well. Well DWR-5675 is also known as "Sahara01" in the files of the Southern Nevada Water Authority (SNWA).

According to our records, Well DWR-5675 has a total depth of 750 feet below ground surface (bgs), with a screened interval from 500 to 746 feet bgs. Although groundwater in this area is not pumped for drinking water, contamination in groundwater is always a concern. In the case of Well DWR-5675, it appears that PCE

has migrated from the shallow aquifer (Las Vegas Aquitard) and into the deeper aquifer (Las Vegas Springs Aquifer), possibly along a preferential pathway near the well.

The NDEP has the analytical data for the shallow monitoring wells from the Maryland Square APTC site (Facility ID H-000086), but we do not have environmental data from the Las Vegas National Golf Course in this case file. Therefore, any additional information you can provide us would assist us in our site assessment and remediation for the Maryland Square APTC site.

We have added you to our cc: list for correspondence on Facility H-000086; this should keep you updated on remedial actions for that site. However, I can tell you that just this week, onsite drilling to delineate the source area at 3661 S. Maryland Parkway has been completed in preparation for a source removal action. We anticipate source removal to be completed some time in March 2007. Also this week, the NDEP has approved a work plan for sampling soil gas along three transects across the footprint of the plume. These data will be used to better delineate the plume and its environmental effects.

Please feel free to contact me if you have any additional questions about the Maryland Square APTC site.

Sincerely,



Mary A. Siders, Ph.D.  
Bureau of Corrective Actions  
Nevada Division of Environmental Protection  
901 S. Stewart Street, Suite 4001  
Carson City, NV 89703  
(775) 687-9496 - direct

cc: Greg Lovato, Supervisor, Bureau of Corrective Actions, Nevada Division of Environmental Protection, Carson City, Nevada 89701  
Dante Pistone, NDEP, Carson City, NV 89119  
Sara Arav-Piper, BCA, NDEP, 1771 E. Flamingo Road, Las Vegas, NV  
Joseph Leising, SNWA, 1900 E. Flamingo Road, Suite 255, Las Vegas, NV  
Dennis Campbell, Southern Nevada Health District, PO Box 3902, Las Vegas, NV 89127